

Title (en)

Honeycomb filter, its manufacturing, exhaust gas purification system using it

Title (de)

Wabenkörperartiger Filter, seine Herstellung, Abgasreinigungsverfahren mit demselben

Title (fr)

Filtre en nid d'abeilles, sa fabrication et appareil de purification de gaz d'échappement le comprenant

Publication

**EP 1470862 A2 20041027 (EN)**

Application

**EP 04252168 A 20040414**

Priority

JP 2003115986 A 20030421

Abstract (en)

The honeycomb structure (1) includes partition walls (2x) forming several cells (3) extending from one end portion (42) to the other end portion (44), such that partition walls have different heights. DEPENDENT CLAIMS are also included for the following: (A) Discharge fluid purification system; and (B) Manufacturing method of a honeycomb structure.

A honeycomb structure includes partition walls arranged so as to form a plurality of cells extending to an other-end portion from a one-end portion through an axial direction. There are provided a honeycomb structure including a partition wall having a different height in the axial direction in the one-end portion, and a manufacturing method suitable for the structure. There is provided a honeycomb structure comprising: a plurality of partition walls arranged so as to form a plurality of cells extending through an axial direction; and a plugging portion in an open end portion of a predetermined cell. The honeycomb structure includes convex and concave plugging portions, and intersecting portions of surrounding partition walls of one cell which does not any plugging portion contact one or more cells including the convex plugging portions and one or more cells including the concave plugging portions for each intersecting portion. A manufacturing method suitable for this honeycomb structure is also provided. There is provided a discharge fluid purification system including the honeycomb structure.

IPC 1-7

**B01J 35/04**

IPC 8 full level

**B01J 35/04** (2006.01); **F01N 3/02** (2006.01); **B01D 29/00** (2006.01); **B01D 39/00** (2006.01); **B01D 46/00** (2006.01); **B01D 46/24** (2006.01); **B01D 46/42** (2006.01); **B01D 53/92** (2006.01); **B01J 32/00** (2006.01); **B28B 11/00** (2006.01); **B28B 11/12** (2006.01); **F01N 3/022** (2006.01); **F01N 3/035** (2006.01); **F01N 3/20** (2006.01)

CPC (source: EP US)

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Cited by

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AL HR LT LV MK

DOCDB simple family (publication)

**EP 1470862 A2 20041027**; **EP 1470862 A3 20061220**; **EP 1470862 B1 20100224**; DE 602004025645 D1 20100408; DE 602004029104 D1 20101021; EP 1880763 A2 20080123; EP 1880763 A3 20080213; EP 1880763 B1 20100908; JP 2004321849 A 20041118; JP 4653387 B2 20110316; US 2004209039 A1 20041021; US 7329300 B2 20080212

DOCDB simple family (application)

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